-	Application No.	Applicant(s)	
Notice of Allowshility	10/829,180	BARROS ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Omar Rojas	2874	
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this appropriate communication (IGHTS). This application is subject	pplication. If not include on will be mailed in due	ed course. THIS
1. A This communication is responsive to the application filed A	April 22, 2004.		
2. ☑ The allowed claim(s) is/are <u>1-11</u> .			
3. X The drawings filed on April 22, 2004 are accepted by the E	Examiner.		
4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to the deponant sheet. Replacement sheet(s) should be Replacement.	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application. nitted. Note the attached EXAMINER es reason(s) why the oath or declar st be submitted. son's Patent Drawing Review (PTC) s Amendment / Comment or in the 1.84(c)) should be written on the draw the header according to 37 CFR 1.121 sit of BIOLOGICAL MATERIAL	y complying with the recent of the state of	quirements NOTICE OF
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 0404 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal II 6. ☐ Interview Summary Paper No./Mail Da 7. ☒ Examiner's Amend 8. ☒ Examiner's Statem 9. ☐ Other	y (PTO-413), ate Iment/Comment	ŕ

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

IN THE SPECIFICATION:

On page 1, after line 2, insert the section heading:

--BACKGROUND OF THE INVENTION--

On page 2, after line 36, insert the section heading:

--BRIEF SUMMARY OF THE INVENTION--

On page 4, after line 24, insert the section heading:

-- BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS--

On page 5, after line 3, insert the section heading:

--DETAILED DESCRIPTION OF THE INVENTION—

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: European Publication Number 0272 911 A2 and U.S. Patent No. 6,418,256 B1, provided by the applicant(s), are exemplary embodiments of the closest available prior art. Both references disclose first and second mode converters with a multimode fiber coupled there between. Both references also teach propagating a first mode and a second, higher order mode. See, for example, the front page of the European Publication and the front page of the '256 patent. However, neither reference teaches or suggests arranging or coupling the second mode converter in such a manner that the first and second signal modes interfere to create a selected spectral spacing at the outlet of the second mode converter as recited by independent claims 1 and 10. Furthermore, no additional teaching is available so as to render the claims obvious over the prior art of record. Thus, claims 1 to 11 are deemed patentable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Omar Rojas whose telephone number is (571) 272-2357. The examiner can normally be reached on Monday-Friday (7:00AM-3:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Omar Rojas

Patent Examiner Art Unit 2874

or

June 16, 2005

Rodney Bovernick Supervisory Patent Examiner

Technology Center 2800